

712-15-12 PATENT

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Assistant commissioner for Patents, Washington, D.C.

20231 on February 1, 2002

Kevin G. Rooney, Reg. No. 36,330

Date

Applicant:

Yukio Nakamura

Serial No.:

09/805,085

Filed:

March 13, 2001

Art Unit:

3761

Examiner:

Unknown

Title:

DEVICE AND METHOD FOR APPLYING ADHESIVE TO

MATERIALS SUCH AS STRANDS

Atty Docket No.:

NOR-999

Cincinnati, Ohio 45202

February 1, 2002

## **INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

In accordance with the duty of candor and good faith imposed by 37 CFR §1.56 and means of complying therewith according to 37 CFR §§1.97 and 1.98, the references listed on the attached PTO-1449 are called to the attention of the United States Patent and Trademark Office in connection with the above-identified patent

application. Copies of the cited references are enclosed herewith. No admission is made that the cited art represents the prior art or that the cited art is the most material art.

The Examiner is urged to consider the cited references and to make an independent decision with respect to their materiality.

Applicant believes that this communication is being mailed before a first action on the merits and, therefore, no fee is due. If this is not the case, the Commissioner is authorized to charge deposit account 23-3000 for any required fees.

Respectfully submitted,

WOOD, HERRON & EVANS, L.L.P.

Kevin G. Rooney

Reg. No. 36,330

2700 Carew Tower 441 Vine Street Cincinnati, OH 45202 (513) 241-2324 K:\NOR\999\ids.wpd SUBSTITUTE FORM PTO-1449
(MODIFIED)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO. NOR-999

SERIAL NO. 09/805,085

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**APPLICANT** FEB 1 1 2002 Yukio Nakamura

(Use several sheets if necessary)

FILING DATE March 13, 2001 **GROUP** Unknown

(37 CFR 1.98(b))

## **U.S. PATENT DOCUMENTS**

| EXAMINER<br>INITIAL |     | F | PAT | ΈN | T١ | 1UN | ИВΙ | ER | ISSUE<br>DATE | PATENTEE        | CLASS | SUBCLASS | FILING DATE<br>IF<br>APPROPRIATE |
|---------------------|-----|---|-----|----|----|-----|-----|----|---------------|-----------------|-------|----------|----------------------------------|
|                     | A.A | 1 | 8   | 6  | 8  | 6   | 9   | 0  | 7/1932        | Brigham         |       |          |                                  |
|                     | A.B | 2 | 2   | 3  | 1  | 8   | 0   | 8  | 2/1941        | Isaac           | 57    | 152      |                                  |
|                     | A.C | 2 | 4   | 2  | 4  | 7   | 4   | 3  | 7/1947        | Davis           | 28    | 82       | 4 17                             |
|                     | A.D | 3 | 4   | 5  | 9  | 6   | 1   | 5  | 8/1969        | Eilerman        | 156   | 181      | C<br>B<br>C<br>B                 |
|                     | A.E | 3 | 5   | 4  | 3  | 3   | 3   | 2  | 12/1970       | Wagner et al.   | 18    | 8        | 1 5<br>1 7                       |
| 73.11410.01003      | A.F | 3 | 6   | 1  | 5  | 9   | 9   | 5  | 10/1971       | Buntin et al.   | 156   | 161      | 20 <b>0</b> 2                    |
|                     | A.G | 3 | 7   | 6  | 2  | 9   | 8   | 2  | 10/1973       | Whittington     | 161   | 47       | 20                               |
|                     | A.H | 3 | 8   | 4  | 9  | 0   | 4   | 0  | 11/1974       | McGinnis et al. | 425   | 72       | · ·                              |
|                     | A.I | 3 | 9   | 0  | 3  | 8   | 4   | 0  | 9/1975        | Gemelli         | 118   | 10       |                                  |
|                     | A.J | 4 | 0   | 3  | 1  | 8   | 5   | 4  | 6/1977        | Sprague, Jr.    | 118   | 641      |                                  |
|                     | A.K | 4 | 0   | 9  | 8  | 6   | 3   | 2  | 7/1978        | Sprague, Jr.    | 156   | 295      |                                  |

## FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

|         | DOCUMENT<br>NUMBER | PUBLICATION<br>DATE | COUNTRY OR<br>PATENT OFFICE | CLASS | SUBCLASS | TRANSLATION<br>(YES/NO) |
|---------|--------------------|---------------------|-----------------------------|-------|----------|-------------------------|
| A.L     | 0235815            | 9/1987              | EP                          |       |          |                         |
| A.M     | 2148183            | 5/1985              | GB                          |       |          |                         |
| A.N     | 11244774A          | 9/1999              | Japan                       |       |          |                         |
| <br>A.O |                    |                     |                             |       |          |                         |
| A.P     |                    |                     |                             |       |          |                         |
| A.Q     |                    |                     |                             |       |          |                         |

## OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

| A.R     | Syang-Peng Rwei, <u>Dog-Legging in the Melt Spinning Process</u> , Polymer Engineering and Science, Vol 38, No. 2, pgs. 341-347, February 1998 |
|---------|--|
| <br>A.S | J&M Laboratories, <u>Durastitch™ Technology</u> , New Product Release Manual, February 1997  |
| A.T     | Rajiv S. Rao et al., <u>Vibration and Stability in the Melt Blowing Process</u> , Ind. Eng. Chem., 32, pgs. 3100-3111, 1993                    |

**EXAMINER** 

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

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SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COVINERCE (MODIFIED)

PATENT AND TRADEMARK OF THE ATTY. DOCKET NO. SERIAL NO. NOR-999 09/805.085 **APPLICANT** INFORMATION DISCLOSURE FEB 1 1 2002 STATEMENT BY APPLICANT Yukio Nakamura (Use several sheets if necessary) **FILING DATE GROUP** (37 CFR 1.98(b)) March 13, 2001 Unknown U.S. PATENT DOCUMENTS FILING DATE **EXAMINER ISSUE** PATENT NUMBER **CLASS SUBCLASS PATENTEE** INITIAL DATE APPROPRIATE 9 3 5 1/1979 0 5 B.A Ohsato et al. 65 7 5 8 0 4/1979 156 291 B.B 1 Buell 9 8 5 8 1/1980 65 5 B.C Ohsato et al. 9 2 2 3/1981 27 B.D 2 5 0 Bunnelle et al. 260 0 4/1983 205 3 156 B.E Stemmler et al. 2 11/1983 1 8 1 3 428 B.F Bunnelle et al. 517 9 3 8 10/1984 4 4 6 52 645 B.G Zeigler 5 2 2 2 6/1985 5 Q Suzuki et al. 156 161 B.H 4 5 4 3 0 9 9 9/1985 385 Bunnelle et al. 604 B.I 2 6 3 0 5 12/1986 156 4 6 Suzuki et al. 164 B.J 5/1987 6 5 4 2 4 6 6 B.K De Jonckheere 156 164 FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS **PUBLICATION TRANSLATION** COUNTRY OR DOCUMENT **NUMBER** DATE PATENT OFFICE CLASS **SUBCLASS** (YES/NO) B.L B.M B.N B.O B.P B.Q OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication) B.R Nordson Corporation, Recouping the Costs of Disposable Diaper Improvements, Brochure, 1/1989 B.S Exxon Chemical Company, Meltblowing Process, Brochure, 9/1994 B.T Nordson Corporation, Adhesive and Powder Application Systems for the Nonwovens Industry, Brochure, 1992 **EXAMINER** DATE CONSIDERED EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in

conformance and not considered. Include a copy of this form with next communication to applicant.

SERIAL NO. SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE ATTY, DOCKET NO. 09/805,085 NOR-999 INFORMATION DISCLOSURE **APPLICANT** FEB 1 1 2002 STATEMENT BY APPLICANT Yukio Nakamura **GROUP** (Use several sheets if necessary) FILING DATE March 13, 2001 Unknown (37 CFR 1.98(b)) U.S. PATENT DOCUMENTS **FILING DATE EXAMINER ISSUE** PATENT NUMBER DATE **PATENTEE CLASS SUBCLASS** INITIAL APPROPRIATE 8/1987 16 18 4 604 385 C.A Suzuki et al. 2 7 9/1987 604 C.B 6 9 5 8 385 Lawson 7 0 1 8 7 12/1987 Boland et al. 604 385 C.C 1 2 1/1988 7 9 6 Bunnelle et al. 525 97 C.D 4 1 1 7 2 5 2 8/1988 604 38 6 Roessler et al. C.E 7 6 2 5 8 2 8/1988 156 164 C.F de Jonckheere 7 7 0 5 9/1988 6 604 393 C.G 6 Proxmire et al. 8 34.9 7 8 8 0 9 11/1988 428 4 C.H Skipper 7 9 8 6 0 3 1/1989 604 378 C.I Meyer et al. 8 4 2 6/1989 4 6 6 156 161 C.J 6 Werenicz 4 0 0 8 3 7/1989 Slautterback et al. 118 323 C.K FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS **DOCUMENT PUBLICATION COUNTRY OR** TRANSLATION CLASS **SUBCLASS** NUMBER DATE PATENT OFFICE (YES/NO) C.L C.M C.N C.O C.P C.Q OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication) C.R Synthetic Surfaces Inc., Roll With It: Aqueous Adhesives Bond Rubber Covered Rollers, Adhesive Age, 2/1994 C.S J and M Laboratories, Inc., <u>DuraSystem Hot Melt Applicators</u>, Brochure, undated C.T Nordson Corporation, Trends: Stranded Elastic Solutions, Brochure, undated **EXAMINER** DATE CONSIDERED EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in

conformance and not considered. Include a copy of this form with next communication to applicant.

| SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED)  PATENT AND TRADEMORNOE |        |                      |                                     |          |      |         |     |        |                    | ATTY. DOCKET NO. SERIAL NO. 09/805,085    |            |   |           |                         |                                  |
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|   |        |                      |                                     |          |      |         |     |        | CLOSURE<br>PLICANT | FEB 1 1 2002                              |            | PPLICANT<br>Ikio Nakamura               |           |                         |                                  |
| (37 CFR 1.9   | 98(b)) | (U:                  | se s                                | seve     | era  | l sh    | eet | s if ı | necessary)         | A Contraction                             |            | ING DATE<br>rch 13, 200                 | 1         | GROL<br>Unkne           |                                  |
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|   | D.A    | 4 8 8 0 4 2 0        |                                     |          |      |         |     | 0      | 11/1989            | Pomparelli                                | Pomparelli |   |           |                         |                                  |
|   | D.B    | 4                    | 8                                   | 9        | 1    | 2       | 4   | 9      | 1/1990             | McIntyre                                  |            | 427                                     | 421       |                         |                                  |
|   | D.C    | 4                    | 9                                   | 0        | 0    | 3       | 8   | 4      | 2/1990             | Sanders et al.                            |            | 156                                     | 204       |                         |                                  |
|   | D.D    | 4                    | 9                                   | 1        | 7    | 6       | 9   | 6      | 4/1990             | De Jonckheere                             |            | 604 38                                  |           |                         |                                  |
|   | D.E    | 4                    | 9                                   | 4        | 9    | 6       | 6   | 8      | 8/1990             | Heindel et al.                            | ···        | 118                                     | 314       |                         |                                  |
|   | D.F    |                      |                                     |          |      |         | 1   | 9      | 10/1990            | Slautterback et al                        | 427        | 265                                     |           | n en II                 |                                  |
|   | D.G    |                      |                                     |          |      |         | 8   | 8      | 1/1991             | Rothen                                    | 118        | 420                                     |           | 2002                    |                                  |
|   | D.H    | 5                    | 5 0 2 4 6 6 7 6/1991 Malcolm et al. |          |      |         |     |        | 604                | 382                                       |            |   |           |                         |                                  |
|   | D.1    | 5 0 2 6 4 5 0 6/1991 |                                     |          |      |         | 0   | 6/1991 | Cucuzza et al. 156 |   |            | 244.11                                  |           |                         |                                  |
|   | D.J    | 5                    | 0                                   | 5        | 7    | 5       | 7   | 1      | 10/1991            | Malcolm et al.                            |            | 524                                     | 505       | •                       | -                                |
|   | D.K    | 5 1 0 2 4 8 4        |                                     |          |      |         | 8   | 4      | 4/1992             | Allen et al.                              | 156        | 244.1                                   | 1         |                         |                                  |
|   |        |                      | F                                   | OF       | REIC | ЗΝ      | PA  | TEN    | TS OR PUB          | LISHED FOREIGN F                          | PATE       | NT APPLICA                              | TIONS     |                         |                                  |
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|   | D.L    |                      |                                     |          |      |         |     |        |                    |   |            |   |           |                         |                                  |
|   | D.M    |                      |                                     |          |      |         |     |        |                    |   |            |   |           |                         |                                  |
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|   | D.O    |                      |                                     |          |      |         |     |        |                    |   |            |   |           |                         |                                  |
|   | D.P    |                      |                                     |          |      |         |     |        | · · · · · ·        |   |            |   |           |                         |                                  |
|   | D.Q    |                      |                                     |          |      |         |     |        |                    |   |            |   |           |                         |                                  |
|   |        |                      | 0                                   | TH       | ER   | DO      | CU  | MEI    | NTS (Includ        | ing Author, Title, D                      | ate,       | Place of Pub                            | lication  | )                       |                                  |
|   | D.R    |                      | •                                   |          |      |         |     |        |                    |   |            |   |           |                         |                                  |
|   | D.S    |                      |                                     |          |      |         |     |        |                    |   |            | *************************************** |           |                         |                                  |
|   | D.T    |                      |                                     |          |      |         |     |        | ·                  |   |            |   |           |                         |                                  |
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SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OF ICE ATTY. DOCKET NO. SERIAL NO. NOR-999 09/805,085 INFORMATION DISCLOSURE **APPLICANT** FEB 1 1 2002 STATEMENT BY APPLICANT Yukio Nakamura (Use several sheets if necessar **GROUP FILING DATE** (37 CFR 1.98(b)) March 13, 2001 Unknown U.S. PATENT DOCUMENTS **EXAMINER ISSUE** FILING DATE INITIAL PATENT NUMBER DATE **PATENTEE CLASS SUBCLASS** APPROPRIATE 5 1 12/1992 E.A Mende et al. 264 555 5 2 0 8 0 5/1993 E.B 6 Becker et al. 427 8 2 5 3 5 1 5 6/1993 E.C Marx et al. 156 148 5 7 5 7 2 1/1994 E.D 6 6 Rooyakkers et al. 156 164 3 4 2 4 8/1994 E.E 6 427 Heindel et al. 2.31 5 5 0 7 5 1 6 3/1996 E.F Rollins et al. 156 167 5 5 7 9 0 9 0 E.G 4/1996 Rollins et al. 156 425 5 2 5 1 7 5 6/1996 E.H 5 Blenke et al. 156 161 5 7 0 3 6 11/1996 E.I Gold 24 715.3 5 8 8 2 5 7 E.J 3 3/1999 Kwok et al. 264 510 5 9 0 2 5 4 0 5/1999 E.K Kwok 264 555 FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS **PUBLICATION DOCUMENT COUNTRY OR** TRANSLATION **NUMBER** DATE PATENT OFFICE **CLASS** (YES/NO) **SUBCLASS** E.L E.M E.N E.O E.P E.Q OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication) E.R E.S E.T **EXAMINER DATE CONSIDERED** EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

| SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF (MODIFIED) PATENT AND TRADIO |  |                           |             |             |           |            |     |       |                        | T OF COM     | MMERCE<br>RKOFFICE         |                   | ATTY. DOCKET NO. SERIAL NO. 09/805,085  |                     |                |                                |        |  |
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|  |  | _                         | T 4         | <b>T</b> C  |           | N I T      |     |       | CLOSURE /<br>PLICANT / | FEB 1        | 1 2002                     | 1                 | ICANT<br>Nakamur                        | a                   |                |                                |        |  |
| (37 CFR 1.9  | (Use several sheets if necessary) (37 CFR 1.98(b)) |                           |             |             |           |            |     |       |                        |              |                            | Marc              | FILING DATE GROUP March 13, 2001 Unknow |                     |                |                                |        |  |
|  | U.S. PATENT  |                           |             |             |           |            |     |       |                        |              |                            |                   |   |                     |                |                                |        |  |
| EXAMINER<br>INITIAL  |  | F                         | 'ΑΤ         | EN          | ۱T۱       | IUI        | ИBI | ER    | ISSUE<br>DATE          |              | PATENTEE                   |                   | CLASS                                   | SUBCLASS            |                | FILING DAT<br>IF<br>APPROPRIAT |        |  |
|  | F.A  | 5 9 0 4 2 9 8 5/1999 Kwok |             |             |           |            |     | 8     | 5/1999                 | Kwok         | et al.                     |                   | 239                                     | 135                 |                |                                |        |  |
|  | F.B  | 6                         | 0           | 7           | 4         | 5          | 9   | 7     | 6/2000                 | Kwok         | et al.                     |                   | 264                                     | 555                 |                |                                |        |  |
|  | F.C  | 6                         | 0           | 7           | 7         | 3          | 7   | 5     | 6/2000                 | Kwok         |                            |                   | 156                                     | 161                 | <b></b>        |                                | _      |  |
|  | F.D  | 6                         | 1           | 9           | 7         | 4          | 0   | 6     | 3/2000                 | Kwok         |                            |                   | 628                                     | 195                 | <del>111</del> |                                | -33    |  |
|  | F.E  | 6 2 0 0 6 3 5 3/2001 Kwd  |             |             |           |            |     | 5     | 3/2001                 | Kwok         |                            |                   | 427                                     | 286                 |                |                                |        |  |
|  | F.F  |                           |             |             |           |            |     |       |                        |              |                            |                   |   |                     |                |                                | ا<br>ا |  |
|  | F.G  |                           |             |             |           |            |     | _     |                        |              |                            |                   |   |                     | -              | 20 <b>02</b>                   |        |  |
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|  | F.L  |                           |             |             |           |            |     | ,     |                        |              | -91                        |                   |   |                     |                |                                |        |  |
|  | F.M  |                           |             |             |           |            |     |       |                        |              |                            |                   |   |                     |                |                                |        |  |
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|  | F.T  |                           |             |             |           |            |     | ****  |                        |              |                            |                   |   |                     |                |                                |        |  |
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Substitute Disclosure Form (PTO-1449)